





Author
EnviroSpec Verification Services


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Green Building Rating Compatibility Analysis

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Validity			
 Office 2009 + V3 ✓ Education 2009 + V3 + V3.1 ✓ Industrial 2009 + V3 ✓	 Homestar V2 + V3 ✓	 (not assessed)	 (not assessed)

Client
Kingspan

Product Name
Kingspan Insulated Roof Panels

Product Description	
Kingspan insulated roof panels present a more efficient system compared to conventional multi-part site assembled systems. They are quicker to install, require less manual labour and offer good thermal performance.	

Manner in which the product may contribute towards points	Legend of Symbols in EnviroSpec
Products must meet specific criteria (e.g. Paint VOC emissions, carpets, etc)	✓
Products may help achieve points by their very nature, if they are specified and installed (e.g. bicycle racks)	●
Products may help achieve an outcome but they must be used in a specific manner (e.g. lighting control and zoning systems) OR The nominated product can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	○

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Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office 2009 + Industrial 2009 + Education (2009 + V3)	ENE - 1	Conditional requirement	This credit rewards buildings that are energy efficient in operation.	○	Contribution potential	Using Kingspan Insulated Roof Panels can help reduce heating requirements. Note: This will not prevent potential overheating and related increase in cooling requirements. It is the responsibility of the design team to ensure all aspects involved in the ENE 1 modeling are balanced to help minimize overall building energy use.
	EMI-3	1	This credit rewards the use Insulations products that contain no Ozone Depleting Substances in their content or Manufacture.	✓	1 point	The nominated Kingspan products satisfy these criteria.
Office V3 + Industrial V3 + Education V3.1	ENE - 1	Conditional requirement	This credit rewards buildings that are energy efficient in operation.	○	Contribution potential	Using Kingspan Insulated Roof Panels can help reduce heating requirements. Note: This will not prevent potential overheating and related increase in cooling requirements. It is the responsibility of the design team to ensure all aspects involved in the ENE 1 modeling are balanced to help minimize overall building energy use.
	EMI-3	1	This credit rewards the use of insulation products that contain no Ozone Depleting Substances in their content or Manufacture.	✓	1 point	The nominated Kingspan products satisfy these criteria.
Homestar (V2 and V3)	EHC - 6	15	<p>This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing.</p> <p>Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to level that are higher than required by Building Code to help achieve a better thermal performance of the building.</p>	○	Contribution potential	Kingspan Insulated Panels have a good R-value to thickness ratio (e.g. R4 for 80mm thickness) and may offer an efficient solution for larger roof areas.

	EHC - 7	4.5	This credit rewards the minimization of moisture accumulation and condensation within the property. Minimum levels of insulation are required to pass the mandatory requirements.	○	Contribution potential	<p>Assuming the floor has an R value of at least R1.5, using Kingspan insulated roof panels can easily help achieve at least R 1.5 final construction value for walls and ceiling which provides 0.5 points.</p> <p>By increasing the insulation level to at least final construction values of R2.0 for wall, floor and ceiling and including efficient windows with R0.3, then this can provide an additional 1.1 points.</p> <p>The remaining points relate to moisture control, extraction, drainage and ventilation. Please refer to Technical Manual.</p>
	MAT - 1	9	This credit rewards the use of eco-preferred and responsibly sourced materials.,	✔	1 merit (out of 1 available for this construction system)	Kingspan Insulated roof panels are Green Tag certified, satisfying the requirements for this credit.
Living Building Challenge		Pass/Fail	The nominated product has not been assessed against this criteria.	-	-	The nominated product has not been assessed against this standard.
SBN Circular Economy Office Model V1.1		Pass/Fail	The nominated product has not been assessed against this criteria.	-	-	The nominated product has not been assessed against this standard.